

DETAIL AT UPSTREAM/DOWNSTREAM EDGE OF EMBANKMENT

SCALE: $\frac{1}{4}$ " = 1'-0"

NOTES:

- 1. The details presented here should be reviewed and modified to suit site specific details.
- 2. Two different toe treatments are shown on Dwg. No. 2.4.1. The Designer shall select the most appropriate for the site and show this one on the plans.
- 3. The riprap detail with toe above the channel bed reduces the quantity of required channel excavation. However, the Engineer needs to evaluate the following drawbacks of this detail:
 - a. The embankment needs to be founded on firm granular material.
 - b. The reduction of the channel cross section needs to be evaluated.
 - c. Since the riprap stone is raised above the channel bed, the stone is subject to a higher water velocity than when level with the top of the channel bed.



RIPRAP EMBANKMENT EDGE

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EMBANKMENT PROTECTION